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Chapter 2

Pin Insulator Properties

2.5 Pin insulator types

By Orient Power

Pin insulator types



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Pin type insulator is usually used in the distribution line. The voltage is from 6kv to 36kv.

Pin insulator types according to material:

- porcelain pin insulator
- composite pin insulator

Types of porcelain ceramic pin insulator:

- ✧ ANSI55-1, ANSI55-2, ANSI55-3, ANSI55-4, ANSI55-5, ANSI55-6, according to ANSI C29.5
- ✧ ANSI56-1, ANSI56-2, ANSI56-3, ANSI56-4, ANSI56-5 according to ANSI C29.6
- ✧ P-11-Y, P-15-Y, P-22-Y, P-33-Y, according to IEC60383 and BS137

Porcelain pin insulator matches with the spindles. The spindle can be divided into short spindle and long spindle.

Long spindle is mainly used on the wooden cross arm and short spindle is used for the steel cross arm.

Types of composite pin type insulator:

- ✧ Tie top
- ✧ Clamp type

Color of pin type insulator:

- Porcelain: brown, white, grey, gray
- Composite: red, grey, gray

Voltage class for pin type insulator:

- ✧ 6KV (seldom now)
- ✧ 10KV,20KV (China class)
- ✧ IEC:11KV/12KV,22KV/24KV,33KV/36KV
- ✧ ANSI:15KV,25KV,35KV

Polymer pin insulator is very good insulator to replace the ceramic pin insulator as composite insulator is light weight, high mechanical strength and anti-pollution.